

CLAIMS

What is claimed is:

1. A wasted toner storing apparatus of a dry type electrophotographic image forming apparatus, comprising:
 - a wasted toner container which accommodates wasted toner generated in a print unit printing an image on a print paper by an electrophotographic method using dry toner; and
 - a dispersing member inside the wasted toner container, dispersing the wasted toner inside the wasted toner container by rotation of the dispersing member.
2. The wasted toner storing apparatus of claim 1, wherein the dispersing member comprises:
 - a rotation axis inside the wasted toner container; and
 - a plurality of spiral protrusions disposed on the rotation axis to disperse the wasted toner.
3. The wasted toner storing apparatus of claim 1, wherein the dispersing member is coupled with a feeding cassette accommodating the print paper to be supplied to the print unit, and this coupling causes the rotation of the dispersing member during an installing/removing operation of the cassette.
4. The wasted toner storing apparatus of claim 3, further comprising a rack gear positioned on the feeding cassette in the installing/removing direction of the feeding cassette, wherein the dispersing member rotates by power transmitted from the rack gear when the feeding cassette is installed/removed.
5. The wasted toner storing apparatus of claim 4, wherein the dispersing member comprises:
 - a rotation axis inside the wasted toner container that is rotated by the rack gear; and
 - a plurality of spiral protrusions which are installed on the rotation axis to disperse the wasted toner.
6. The wasted toner storing apparatus of claim 1, further comprising a gear coupled to one end of the dispersing member;

wherein the dispersing member is rotated by a power applied to the gear coupled to one end of the dispersing member, the one end protruding outside the wasted toner container.

7. The wasted toner storing apparatus of claim 6, further comprising:
a separate driving device; and
a driving motor;
wherein the power applied to the gear is supplied by the separate driving device, and the separate driving device is coupled to the driving motor.

8. The wasted toner storing apparatus of claim 6, further comprising:
a photoreceptive drum;
a transfer belt; and
a driving device driving the photoreceptive drum and the transfer belt;
wherein the gear is coupled to the driving device.

9. A dry type electrophotographic image forming apparatus comprising:
a print unit printing an image on a print paper by an electrophotographic method using dry toner; and
a wasted toner storing apparatus container storing wasted toner generated in the print unit,
wherein the wasted toner storing apparatus comprises:
a wasted toner container accommodating the wasted toner; and
a dispersing member inside the wasted toner container, dispersing the wasted toner inside the wasted toner container by rotation of the dispersing member.

10. The dry type electrophotographic image forming apparatus of claim 9, wherein the dispersing member comprises:
a rotation axis inside the wasted toner container; and
a plurality of spiral protrusions disposed on the rotation axis to disperse the wasted toner.

11. The dry type electrophotographic image forming apparatus of claim 9, further comprising a feeding cassette accommodating the print paper to be supplied to the print unit, wherein the dispersing member is coupled with the cassette, and this coupling causes the rotation of the dispersing member during an installing/removing operation of the feeding cassette.

12. The dry type electrophotographic image forming apparatus of claim 11, further comprising a rack gear;
wherein the rack gear is formed in the feeding cassette in the installing/removing direction of the feeding cassette, and the dispersing member rotates by power transmitted from the rack gear when the feeding cassette is installed/removed.

13. The dry type electrophotographic image forming apparatus of claim 12, wherein the dispersing member comprises:
a rotation axis inside the wasted toner container that is rotated by the rack gear; and
a plurality of spiral protrusions which are installed on the rotation axis to disperse the wasted toner.

14. The dry type electrophotographic image forming apparatus of claim 9, further comprising a gear;
wherein the dispersing member is rotated by a power applied to the gear coupled to one end of the dispersing member, the one end protruding outside the wasted toner container.

15. The dry type electrophotographic image forming apparatus of claim 14, further comprising:
a separate driving device; and
a driving motor;
wherein the power applied to the gear is supplied by the separate driving device, and the separate driving device is coupled to the driving motor.

16. The dry type electrophotographic image forming apparatus of claim 14, further comprising a photoreceptive drum;
a transfer belt; and
a driving device driving the photoreceptive drum and the transfer belt;

wherein the gear is coupled to the driving device.